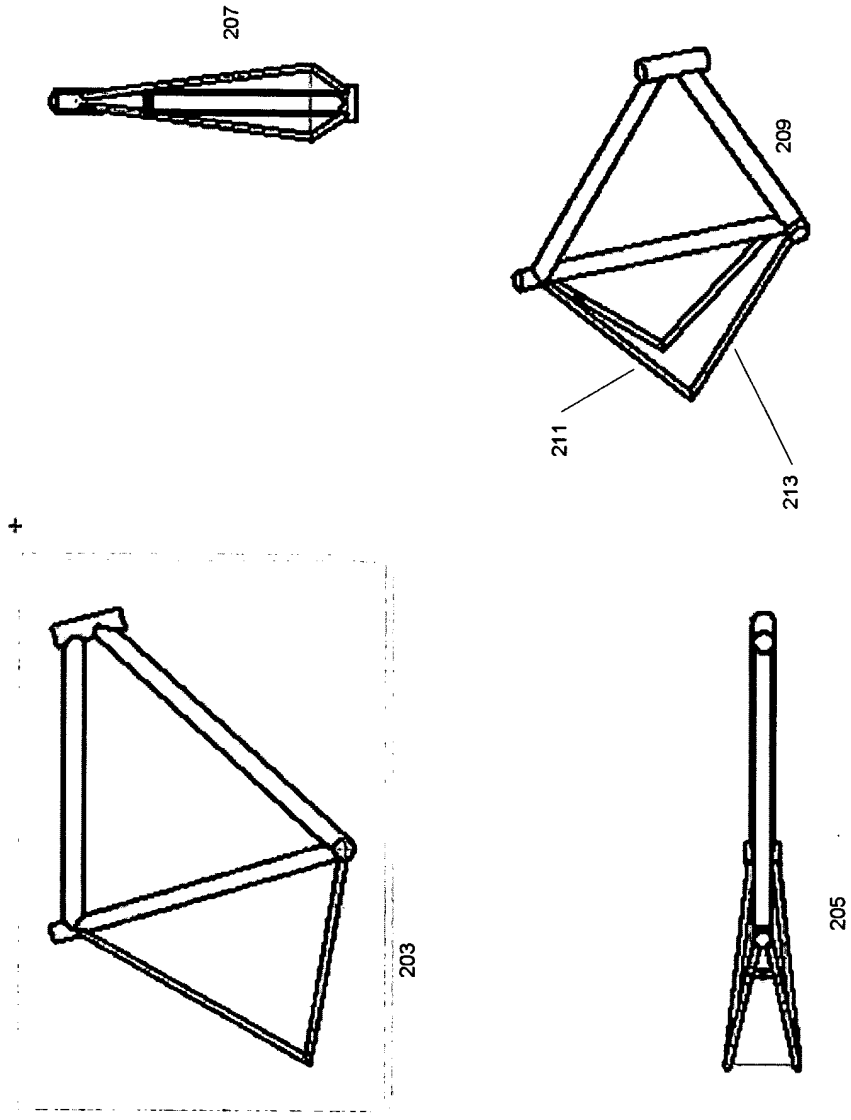


Fig. 1 Prior Art



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Fig. 2

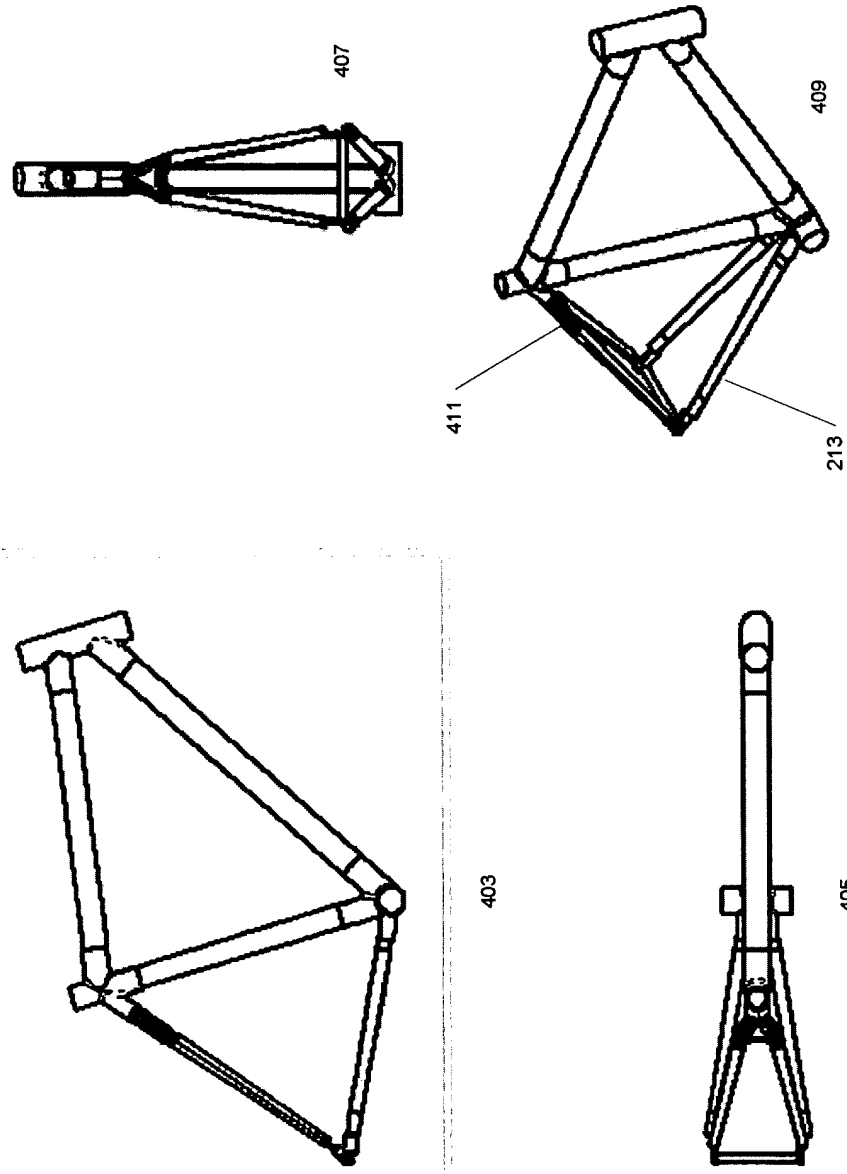
MQC part#	ID(in)	OD(in)	L(in)	Outlook	Lay-up
ZR-1035	.420/.566	.540/.686	22	Plain weave	$[\pm 15/0_2/\pm 15^*/0_2^*/PW]$
ZR-1036	.575/.707	.839/.707	15	Plain weave	$[\pm 15/0_2/\pm 15^*/0_3^*/PW]$
ZR-1037	1.072	1.240	44	Glass	[gl ₉]
ZR-1038	1.250	1.359	54	Plain weave	$[0_2/\pm 45/0_2^*/\pm 45^*/PW]$
ZR-1039	1.500	1.610	54	Plain weave	$[0_2/\pm 45/0_2^*/\pm 45^*/PW]$
ZR-1040	1.375	1.485	54	Plain weave	$[0_2/\pm 45/0_2^*/\pm 45^*/PW]$
ZR-1041	1.500	1.614	72	Uni	$[gl/\pm 45/0_2/\pm 45^*/0_2^*]$
ZR-1042	.420/.566	.540/.686	22	Uni	$[\pm 15/0_2/\pm 15^*/0_2^*/0_2]$
ZR-1043	1.250	1.355	54	Uni	$[0_2/\pm 45/0_2^*/\pm 45^*/0_2]$
ZR-1044	1.375	1.481	54	Uni	$[0_2/\pm 45/0_2^*/\pm 45^*/0_2]$
ZR-1045	1.500	1.606	54	Uni	$[0_2/\pm 45/0_2^*/\pm 45^*/0_2]$

gl = glass fabric

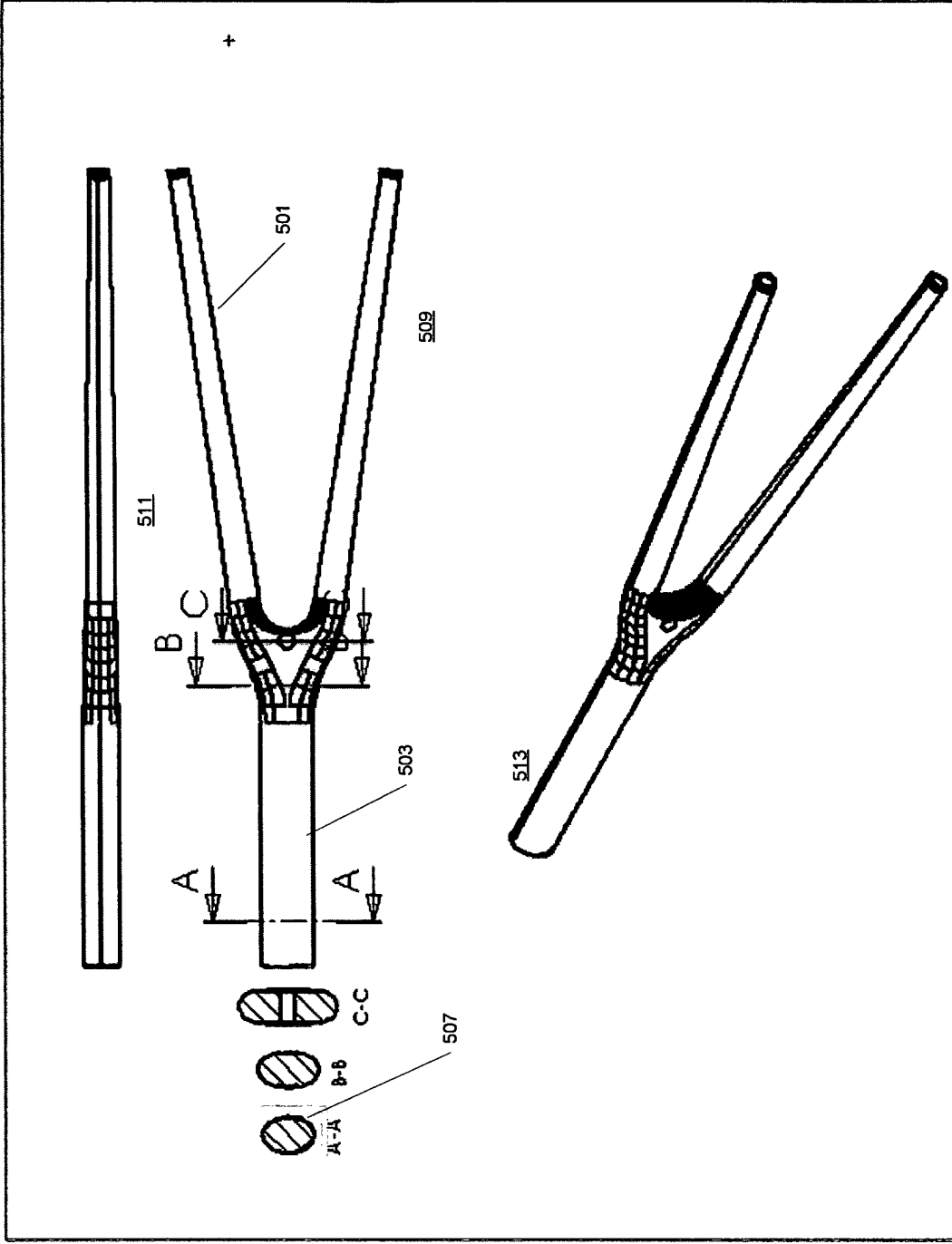
PW = plain weave graphite fabric

* = high modulus uni-directional carbon prepreg

Fig. 3



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Fig. 5

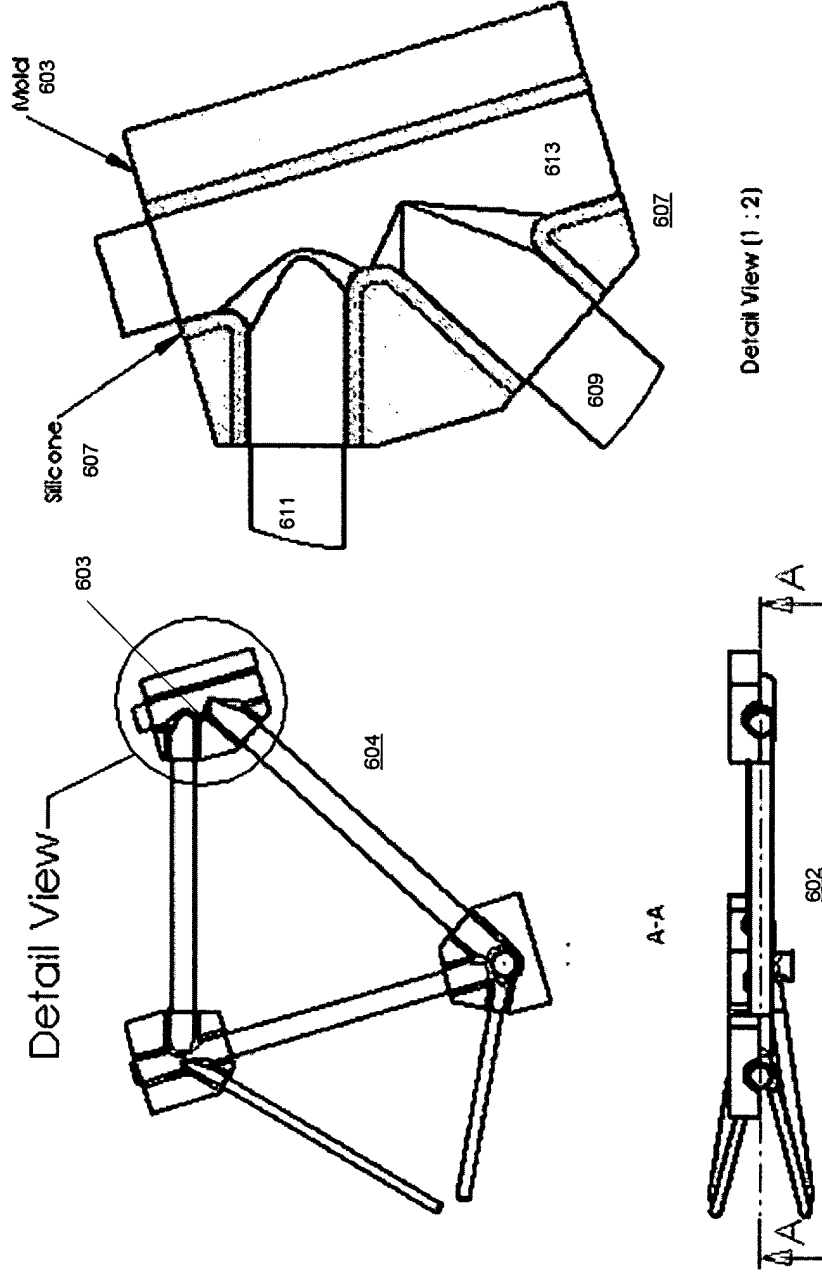


Fig. 6

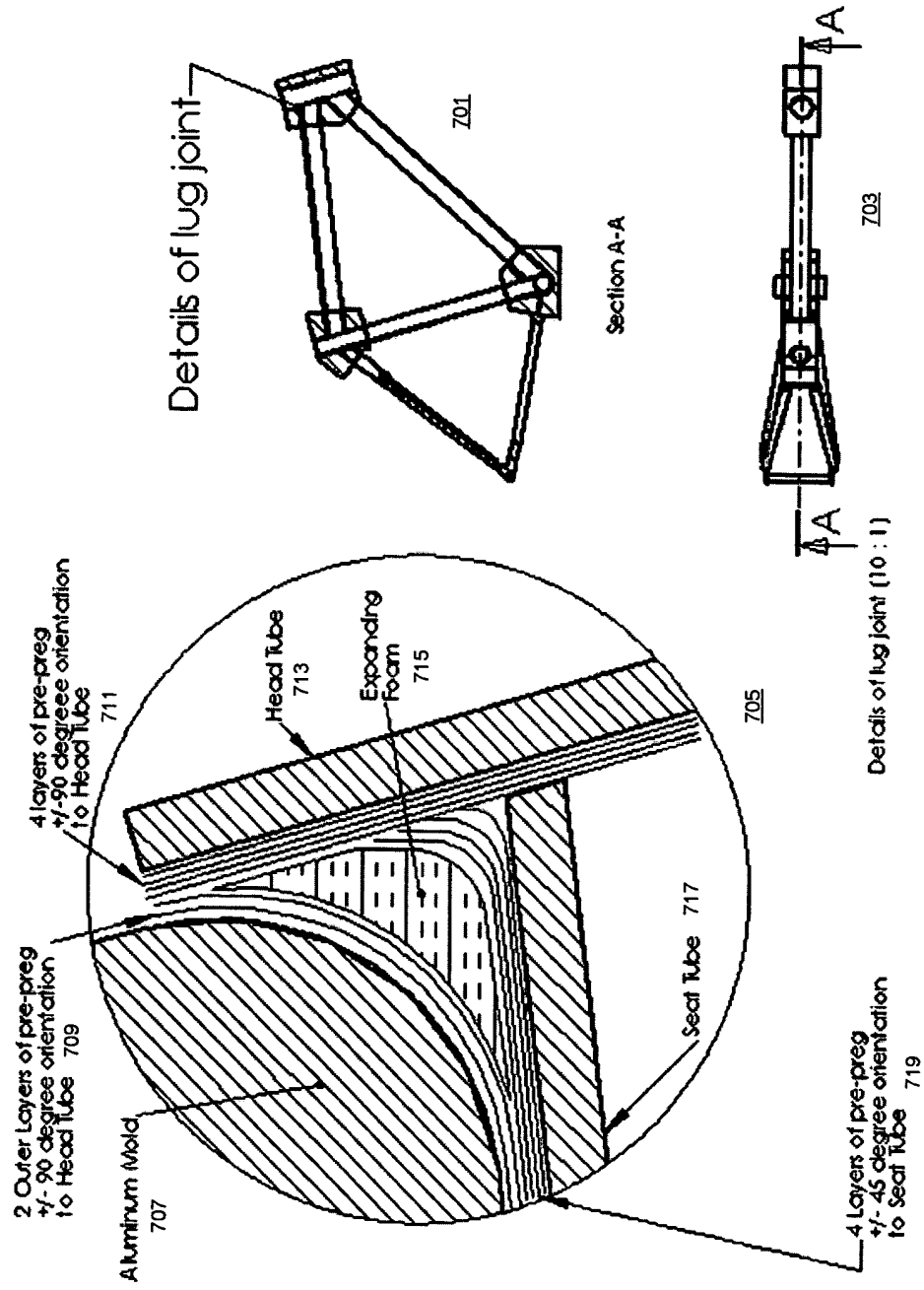


Fig. 7

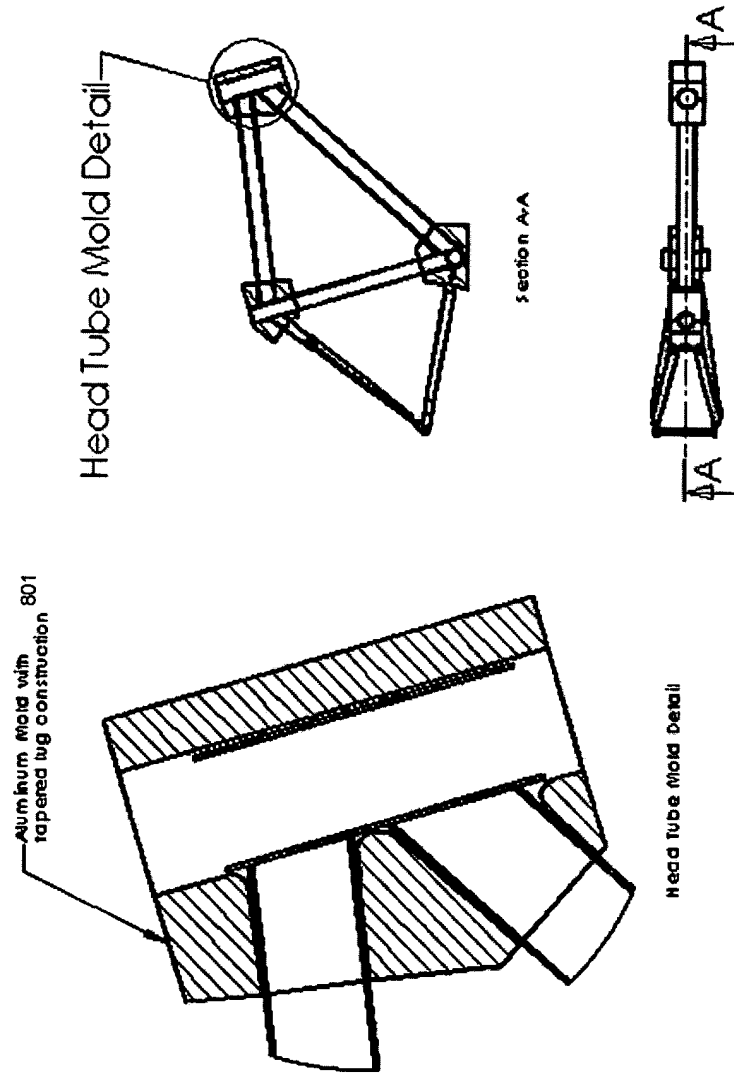
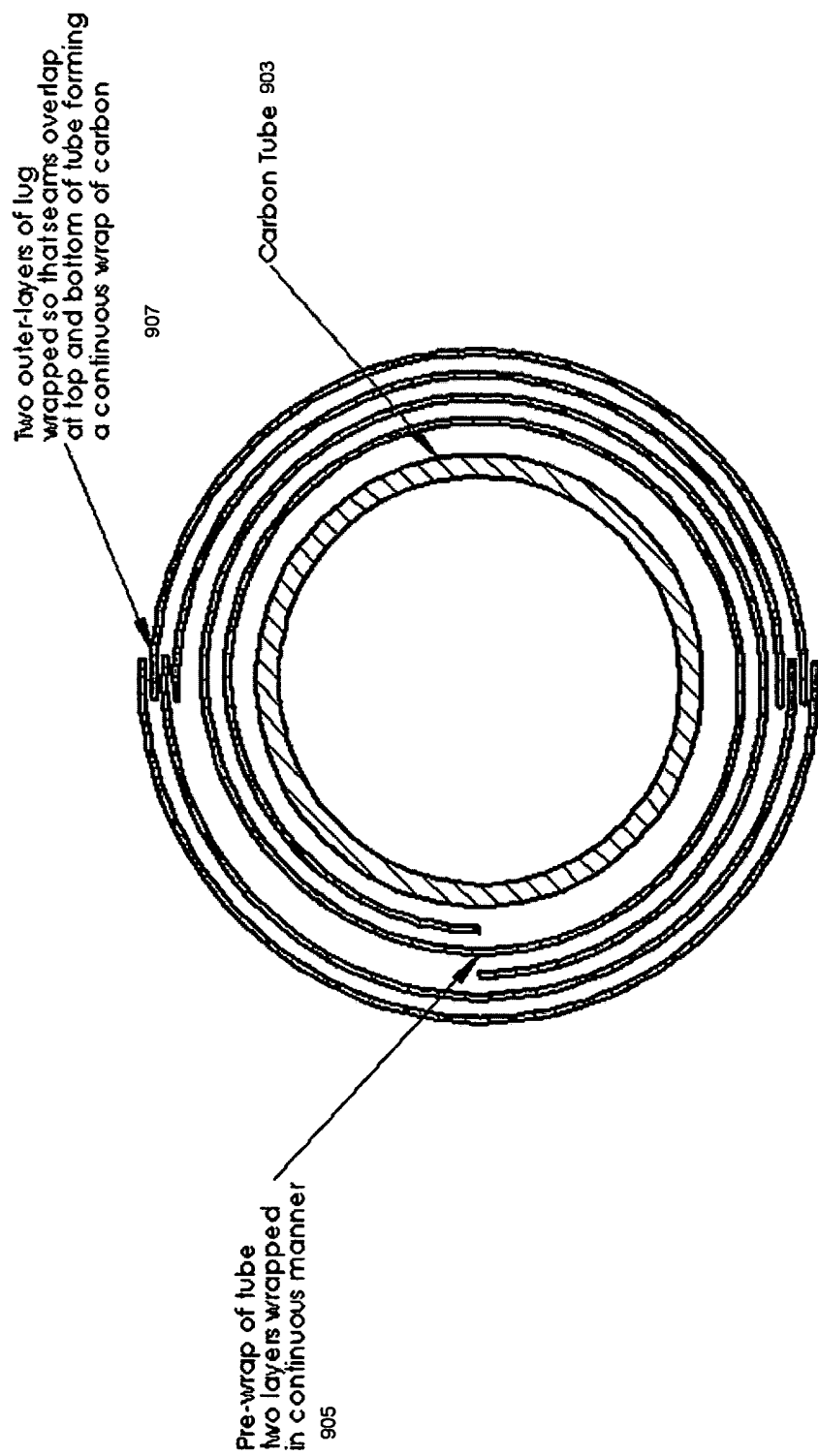


Fig. 8



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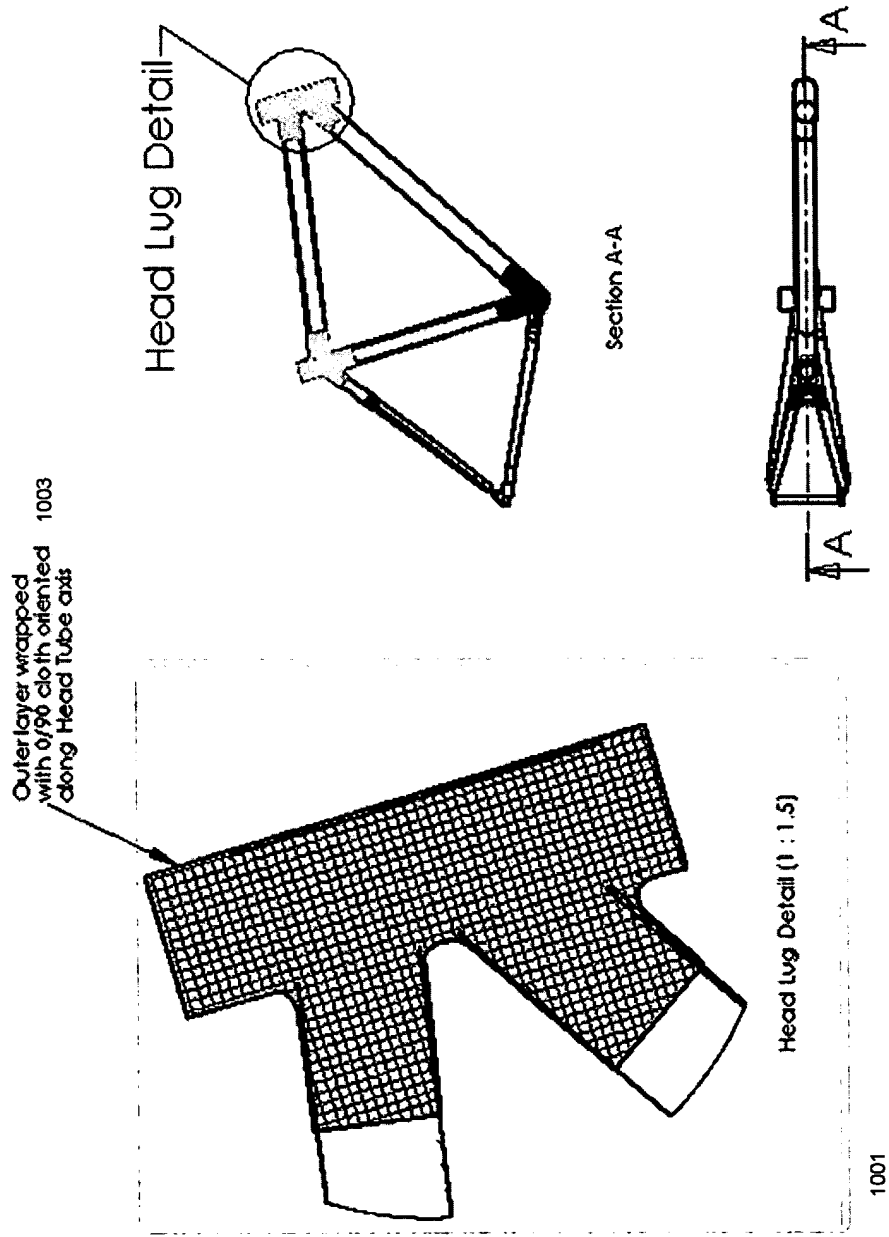


Fig. 10